### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Takayoshi Ozaki	09/13/2013
Hiroyuki Yamada	09/13/2013
Ken Sugiura	09/13/2013
Takehisa Mori	09/18/2013
Takeshi Tsubouchi	09/15/2013

#### **RECEIVING PARTY DATA**

Name:	THORATEC CORPORATION
Street Address:	6035 Stoneridge Drive
City:	Pleasanton
State/Country:	CALIFORNIA
Postal Code:	94588

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14034730

### **CORRESPONDENCE DATA**

**Fax Number**: 7345420900

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 734-542-0900

Email: EAST@MSTFIRM.COM

Correspondent Name: MACMILLAN SOBANSKI & TODD, LLC Address Line 1: ONE MARITIME PLAZA FIFTH FLOOR

Address Line 2: 720 WATER STREET
Address Line 4: TOLEDO, OHIO 43604-1619

ATTORNEY DOCKET NUMBER:	18488
NAME OF SUBMITTER:	Renee D. East
	PATENT

REEL: 031265 FRAME: 0418

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502506483 REEL: 0

Signature:	/Renee D. East/
Date:	09/24/2013
Total Attachments: 5 source=Declaration_Mori_signed#page1.tif source=Declaration_Ozaki_signed#page1.tif source=Declaration_Sugiura_signed#page1.tif	

source=Declaration\_Tsubouchi\_signed#page1.tif source=Declaration\_Yamada\_signed#page1.tif

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The attached application, or United States application or PCT international application number filed on United States application was made or authorized to be made by me.  I hereby state that I have reviewed and understand the contents of the specification in the above-identified application, including the claims.  I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the centinuation-in-part application.  Pursuant to my employment agreement heretofere made and/or by other contractual obligation of myself or my employer, and for valuable consideration which is hereby acknowledged. I hereby sell, assign and transfer unto THORATEC CORPORATION, baving a place of business at 6035 Stoneridge Drive, Pleasanton, California 94588, USA, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, throughout the world, in and to the above-identified application and the inventions and discoveries in any and all countries, entities and intergovernmental organizations in its or their own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE) attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Senial No. 14/034730	ARREST REVERRENCE	Rotation Drive Device and Centrifugal Fump Apparatus Employing Same	
The above-identified application was made or authorized to be made by me.  I hereby state that I have reviewed and understand the contents of the specification in the above-identified application, including the claims.  I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the centinuation-in-part application.  Pursuant to my employment agreement heretofore made and/or by other contractual obligation of myself or my employer, and for valuable consideration which is hereby acknowledged, I hereby sell, assign and transfer unto THORATEC CORPORATION, having a place of business at 6035 Stoneridge Drive, Pleasanton, California 94588, USA, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, throughout the world, in and to the above-identified application and the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the application to teceive Letters Patent horein: Serial No. 14/034730	This declaration is directed to:		
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including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights berein sold, assigned and set over.  And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.  I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.  LEGAL NAME OF INVENTOR  Inventor: Takchisa Mori Date: September 18 26/3  Signature: Jakchisa Mori Date: September 18 26/3	and for valuable consideration which is hereby acknowledged. I hereby sell, assign and transfer unto THORATEC CORPORATION, having a place of business at 6035 Stoneridge Drive, Pleasanton, California 94588, USA, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, throughout the world, in and to the above-identified application and the inventions and discoveries thereof including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 14/034730, Filing Date Sept. 24, 2013, and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals,		
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.  LEGAL NAME OF INVENTOR  Inventor: Takchisa Mori Date: Splants 18, 26/3  Signature: Jakchisa Mori	including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives		
or imprisonment of not more than five (5) years or both.  LEGAL NAME OF INVENTOR  Inventor: Takchisa Mori Date: September 18, 26/3  Signature: Lakehisa Mari	And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.		
Inventor: Takehisa Mori Date: September 18, 2013 Signature: Lakehisa Mori	or imprisonment of not more than five (5) years or both.		
Signature: <u>Lakehisa Mari</u>	LEGAL NAME OF	INVENTOR	
Note: An Application Data Sheet (PTO/SRIIA or equivalent) including naming the entire inventing antity must accompany this force			
Use an additional declaration form for each additional inventor.	Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.		

Title of Investion Rotation Drive Device and Centrifugal Pump Apparatus Employing Same
This declaration is directed to:
The attached application, or United States application or PCT international application number filed on
The above-identified application was made or authorized to be made by me.
I hereby state that I have reviewed and understand the contents of the specification in the above-identified application, including the claims.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.
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And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over.
And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.
LEGAL NAME OF INVENTOR
Inventor: Takayoshi Ozaki Date: Sep. 13, 2013
Signature: /alexexacts Ofert
Note: An Application Data Sheet (FTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional declaration form for each additional inventor.

Attorney Docket Number   18488
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This declaration is directed to:	
Unite	ttached application, or d States application or PCT international application number filed on
The above-identified ap	plication was made or authorized to be made by me.
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And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over.	
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LEGAL NAME OF IN	
	<u>Sugiura</u> Date: <u>Sep. /3. 20/3</u>
Signature: <u>LA</u>	Bugining
Note: An Application Da Use an additional declarati	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. on form for each additional inventor.

Title of Invention	Rotation Drive Device and Centrifugal Pump Apparatus Employing Same	
This declaration is directed to:		
Uni	attached application, or ted States application number filed on	
The above-identified a	application was made or authorized to be made by me.	
I hereby state that I is including the claims.	have reviewed and understand the contents of the specification in the above-identified application,	
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and for valuable con CORPORATION, have referred to as the AS throughout the world, right of the ASSIGNI Patent for the invention own name or names, attorney to insert the same of 14/034730.  ASSIGNEE, its successibilities and to and to complete the same of t	syment agreement heretofore made and/or by other contractual obligation of myself or my employer, sideration which is hereby acknowledged. I hereby seil, assign and transfer unto THORATEC long a place of business at 6035 Stoneridge Drive, Pleasauton, California 94588, USA, hereinfler SIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, in and to the above-identified application and the inventions and discoveries thereof including the E, its successors, assigns or other legal representatives to make applications and to receive Letters are and discoveries in any and all countries, entities and intergovernmental organizations, in its or their or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's erial/application number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————	
And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over.		
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	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine t more than five (5) years or both.	
	keshi Tsubouchi Date: Spikas Si 18th 2013	
Signature:		
	Pata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, ation form for each additional inventor.	

Attorney Docket Number	18488

THE CONTRACTORS	Notation Drive Device and Centifugar Fump Apparatus Employing Same	
This declaration is directed to:		
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or imprisonment of	ge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine not more than five (5) years or both.	
LEGAL NAME OF	INVENTOR	
Inventor:	Hiroyuki Yamada Date: ACD . 13 . 2013	
	dirogahi Jamada	
	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, aration form for each additional inventor.	

**RECORDED: 09/24/2013**